

#17

**CONTINUED PROSECUTION APPLICATION (CPA)****REQUEST TRANSMITTAL (Small Entity)**

Submit an original, and a duplicate for fee processing.

(Only for Continuation or Divisional Applications Under 37 CFR 1.53(d))

Docket No.

010456-US

☐ **DUPLICATE**

(Check box if applicable)

First Named Inventor

Examiner

Group/Art Unit

MEHR

Easthom, Karl D

2832

Address to:

Assistant Commissioner for Patents

Box CPA

Washington, D.C. 20231

This is a request for filing a ☒ continuation or ☐ divisional application under 37 CFR 1.53(d), (continued prosecution application (CPA)) of prior application number 09/807,947 filed on 10 May 2001 and entitled:

Integrated Polycrystalline Silicon Resistor with Carbon or Germanium

1. ☐ Enter the unentered amendment previously filed on _____ under 37 CFR 1.116 in the prior nonprovisional application.
2. ☒ A preliminary amendment is enclosed.
3. ☐ This application is being filed by fewer than all the inventors named in the prior application, 37 CFR 1.53(d)(4).
- a. ☐ **DELETE** the following inventor(s) named in the prior nonprovisional application:

05/16/2003 WABDELRI 00000092 09807947

01 Ff:2006

375.00 OP

- b. ☐ The inventor(s) to be deleted are set forth on a separate sheet attached hereto.

4. ☐ A new power of attorney or authorization of agent is enclosed.

5. ☒ Small Entity Status:

- a. ☐ A small entity statement is enclosed.

- b. ☒ A small entity statement was filed in the prior nonprovisional application and such status is still proper and desired.

6. ☒ The fee for this application is calculated as follows:

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	11	- 20 =	0	x \$9.00	\$0.00
Indep. Claims	2	- 3 =	0	x \$42.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$375.00
TOTAL FILING FEE					\$375.00

CONTINUED PROSECUTION APPLICATION (CPA) REQUEST TRANSMITTAL (Small Entity)
(Only for Continuation or Divisional Applications Under 37 CFR 1.53(d))

7. ☐ The Commissioner is hereby authorized to credit overpayments or charge the following fees to Deposit Account No.
- ☐ fees required under 37 C.F.R. 1.16.
 - ☐ fees required under 37 C.F.R. 1.17.
 - ☐ fees required under 37 C.F.R. 1.18.
8. ☒ A check in the amount of \$375.00 is enclosed.
9. ☐ An Information Disclosure Statement (IDS) is enclosed:
- a. ☐ PTO-1449
 - b. ☐ Copies of IDS Citations
10. ☒ Also enclosed:
11. ☒ The prior application's correspondence address will carry over to this CPA UNLESS a new correspondence address is provided below:

CONTINUED PROSECUTION APPLICATION (CPA) REQUEST TRANSMITTAL (Small Entity)
(Only for Continuation or Divisional Applications Under 37 CFR 1.53(d))

NOTES

Submit an original, and a duplicate for fee processing.

FILING QUALIFICATIONS: The prior application must be a nonprovisional application that is either: (1) complete as defined by 37 C.F.R. 1.51(b), or (2) the national stage of an international application in compliance with 35 U.S.C. 371. A Notice will be placed on a patent issuing from a CPA, except for reissues and designs, to the effect that the patent issued on a CPA and is subject to the twenty-year patent term provisions of 35 USC 154(a)(2). Therefore, the prior application of a CPA may have been filed before, on or after June 8, 1995.

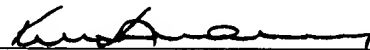
C-I-P NOT PERMITTED: A continuation-in-part application cannot be filed as a CPA under 37 C.F.R. 1.53(d), but must be filed under 37 C.F.R. 1.53(b).

EXPRESS ABANDONMENT OF PRIOR APPLICATION: The filing of this CPA is a request to expressly abandon the prior application as of the filing date of the request for a CPA. 37 C.F.R. 1.53(b) must be used to file a continuation, divisional or continuation-in-part of an application that is not to be abandoned.

ACCESS TO PRIOR APPLICATION: The filing of this CPA will be construed to include a waiver of confidentiality by the Applicant under 35 U.S.C. 122 to the extent that any member of the public who is entitled under the provisions of 37 C.F.R. 1.14 to access to, copies of, or information concerning, the prior application may be given similar access to, copies of, or similar information concerning, the other application or application in the file jacket.

35 U.S.C. 120 STATEMENT: In a CPA, no reference to the prior application is needed in the first sentence of the specification and none should be submitted. If a sentence referencing the prior application is submitted, it will not be entered. A request for a CPA is the specific reference required by 35 U.S.C. 120 and to every application assigned the application number identified in such request, 37 C.F.R. 1.78(a).

Dated: 9 May 2003



Signature

Karl Hormann

Typed or printed name

26,470

Registration Number (if applicable)

- ☐ Inventor(s)
☐ Assignee of complete interest
☒ Attorney or agent of record

cc:

CPA 12332/4

CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)

Applicant(s): **MEHR**

Docket No.

010456-US

Serial No.

09/807,947

Filing Date

10 May 2001

Examiner

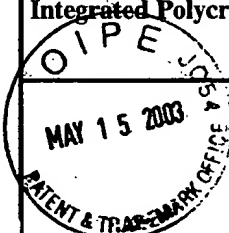
Easthom, Karl D

Group Art Unit

2832

Invention:

Integrated Polycrystalline Silicon Resistor with Carbon or Germanium



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MAY 19 2003
TC 2800 MAIL ROOM

I hereby certify that this **Request for Continued Prosecution**

(Identify type of correspondence)

is being deposited with the United States Postal Service as first class mail in an envelope addressed to: The

Assistant Commissioner for Patents, Washington, D.C. 20231 on

9 May 2003

(Date)

Karl Hormann

(Typed or Printed Name of Person Mailing Correspondence)

(Signature of Person Mailing Correspondence)

Note: Each paper must have its own certificate of mailing.



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

#18
Amended
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MAY 19 2003
JUL
115m
TC 2800 MAIL ROOM

Application No.: 09/807,947
Filed: 10 May 2001
By: Mehr, Wolfgang
For: Integrated Polycrystalline Silicon Resistor
with Carbon or Germanium

Examiner: Easthom, Karl D
Group Art Unit: 2832

*Please enter
KR 11/8/3*

86 Sparks Street
Cambridge MA 02138-2216
9 May 2003

Hon.
Assistant Commissioner for Patents
Washington DC 20231

Preliminary Amendment

Sir:

In response to the Official Action dated 14 November 2002 Applicant is submitting its request for continued prosecution. A petition to extend the period for response to the Official Action by three (3) months was filed under separate cover.

In the claims:

Please cancel claims 5 and 12.

Claim 3, 7, 8 and 9 are to be amended to read as follows:

3. (Amended) An integrated high-ohmic polycrystalline SiGe resistor,
comprising:
a substrate;
a dielectric substance;

a resistance layer on the dielectric substance and consisting of a polycrystalline layer of a material selected from the group consisting of SiGe and SiGe:C; and electrical contacts.

7. (Amended) A method of fabricating an integrated high-ohmic polycrystalline SiGe resistor, comprising the steps of:
providing a substrate comprising silicon;
precipitating a dielectric substance on the substrate;
precipitating and doping on the dielectric substance a layer of material selected from the group consisting of SiGe and SiGe:C;
further precipitating the dielectric substance on the layer; and
fabricating metallic contacts.

8. (Amended) The method of claim 7, wherein the layer is precipitated in polycrystalline form.

9. (Amendment) The method of claim 7, wherein the layer is precipitated in amorphous form.

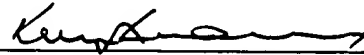
Amendment

The claims as hereby amended clearly distinguish Applicant's invention from the prior art of record. In particular, EP 0,116,702, while it discloses a silicon based polycrystalline resistor containing carbon. However, the '702 patent does not teach the fabrication of polycrystalline resistor layer made of SiGe or SiGe doped with C, nor does it teach such a resistor *per se*.

The above changes to the claims do not add new matter to Applicant's original disclosure.

It is earnestly urged that as amended the instant application is in condition
for allowance which is courteously solicited.

Respectfully submitted,



Karl Hormann

Registration No.: 26,470

Area Code 617.491.8867